



#### ABSTRACT OF THE DISCLOSURE

0022 Current methods of drug administration to the lungs are inefficient. 'Endotracheal Tube with Aerosol Delivery Apparatus' is specifically designed for uniform intrapulmonary deposition of aerosolized medication in patients on mechanical ventilation. As opposed to the current methods of drug delivery where aerosol particles are generated at the proximal end of the ET tube, with majority of the particles adhering to the endotracheal tube during delivery, this invention bypasses the endotracheal tube by generating aerosol particles at its distal end. This invention incorporates an external adapter designed to perfectly fit the nozzle of the conventional metered dose inhaler at it's proximal end. From the distal end of this adapter originates a secondary cannula with a pinhole inner diameter that enter the ET tube at its proximal end and continues distally within the wall of the ET tube to terminate as a pinhole opening, where aerosol particles are generated.

10072282.021102